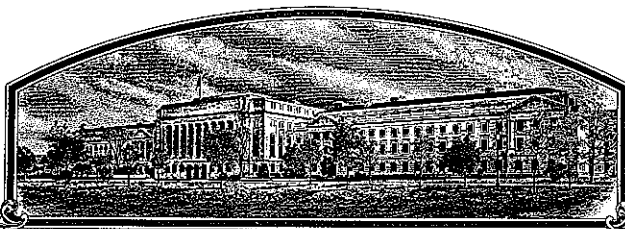


No.

9500015



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Nobartis Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

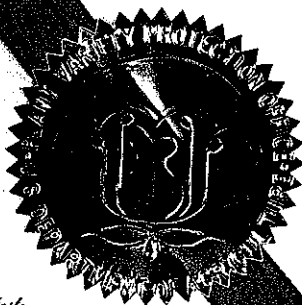
NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WATERMELON

'QUETZALI'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be hereunto affixed at the City of Washington, D.C., on the twenty-first day of March, in the year of our Lord two thousand.

Attest:



Ann Marie DeLoach

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Jan G. Hillman

Secretary of Agriculture

9500015

REPRODUCE LOCALLY. Include form number and date on all reproductions.

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) NOVARTIS SEEDS, INC.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER RXW113	3. VARIETY NAME QUETZALI
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 4188 600 N. Armstrong Boise, ID 83704-4188		5. TELEPHONE (include area code) (208) 326-7246	FOR OFFICIAL USE ONLY PVPO NUMBER 9500015 DATE Oct. 19, 1994
		6. FAX (include area code) (208) 378-6625	
7. GENUS AND SPECIES NAME Citrullis lanatus	8. FAMILY NAME (Botanical) Cucurbitaceae		FILING AND EXAMINATION FEE: \$ 2325.00 DATE 6/28/94 CERTIFICATION FEE: \$ 300 DATE 1-24-00
9. CROP KIND NAME (Common name) Watermelon			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name) Corporation			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		12. DATE OF INCORPORATION 2/25/75	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Charleen Orthel, Novartis Seeds, Inc. P.O. Box 4188 Boise, ID 83704-4188			14. TELEPHONE (include area code) (208) 327-7246
			15. FAX (include area code) (208) 378-6625

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

a. ☒ Exhibit A. Origin and Breeding History of the Variety

b. ☒ Exhibit B. Statement of Distinctness

c. ☒ Exhibit C. Objective Description of the Variety

d. ☒ Exhibit D. Additional Description of the Variety (Optional)

e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership

f. ☐ Voucher Sample (2,600 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)

g. ☐ Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)

☐ YES (If "yes," answer items 18 and 19 below) ☒ NO (If "no," go to item 20)

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ YES (If "yes," give names of countries and dates) ☐ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s)) Charleen Orthel		SIGNATURE OF APPLICANT (Owner(s))	
NAME (Please print or type) Charleen Orthel		NAME (Please print or type)	
CAPACITY OR TITLE Customer Quality Mgmt Coord.	DATE 11 May 1998	CAPACITY OR TITLE	DATE

Exhibit A Revised

Origin and Breeding History of the Variety

Quetzali (RXW 113)

Quetzali (RXW 113) watermelon (*Citrullis lanatus* (thurb.) Matsum and Nakai) originated as an F1 hybrid made in a greenhouse in 1987 in Twin Falls, Idaho between Mickylee (Univ. of Florida) and Sweet Treat (Burpee Seed Co. PVP # 8400139). The initial cross was made by Dr. Paul Yorty of Musser Seed Co. A continuous backcrossing program with selection each generation was followed thereafter with the first BC1 generation created in the field in 1987. The recurrent parent for each backcross was Mickylee but single plant selection was applied to each backcross using only striped fruit and vine plant type.

In the summer of 1990, the BC6 generation had been reached. At this time self pollinations began followed by single plant selection for a vine type plant with high quality, striped fruit in the desired ice box (8-14 lbs.) size range. Self-pollination followed by selection for these criteria continued through the summer of 1991, at which time the S3 generation had been reached.

In the fall of 1991, the Twin Falls watermelon program was transferred to the Rogers NK Seed Co., (now Novartis Seeds, Inc.) research center in Naples, Florida. At that time, five S3 sister lines, now called Striped Mickylee populations were evaluated after self-pollinations had been made.

One of these lines, now S4, was identified as being the most uniform and highest quality with the desired ice box fruit size. Seed from 4 selfed fruit within this line was bulked. This became the original breeder seed.

A pedigree flow diagram (Exhibit A-1) is attached which describes the breeding methods used and related timetable.

In 1992, this line was assigned an experimental code **RXW 113**. It was subsequently evaluated in 3 variety trials in 1992 and 1993. Based upon favorable trial results, breeder seed of **RXW 113** was released to our production department for the production of foundation seed in 1993 in California.

Potential for sales was demonstrated in growers' trials evaluated in December 1993-January 1994 in Guatemala. Seed was provided at no charge to these growers, and data obtained was for Novartis purposes only. No commercial sales were made prior to the application for PVP (effectively filed Oct. 19, 1994). Novartis Seeds, Inc. (Rogers NK Seed Co.) began stock seed and commercial seed production of **RXW 113** in 1994 in California. **RXW113** was named **Quetzali** in the spring of 1995.

Exhibit A revised
PVP Application
Watermelon 'Quetzali' (#9500015)

Quetzali is a stable and uniform variety. No offtypes or variants have been observed during any of the production increases from 1993 through 1997 (5 generations). Therefore no roguing has been necessary. Original breeder seed is stored in Woodland, California and can be used for replenishing the variety, if necessary.

Exhibit A - 1

Pedigree Flow Diagram, Quetzali (RXW 113) watermelon

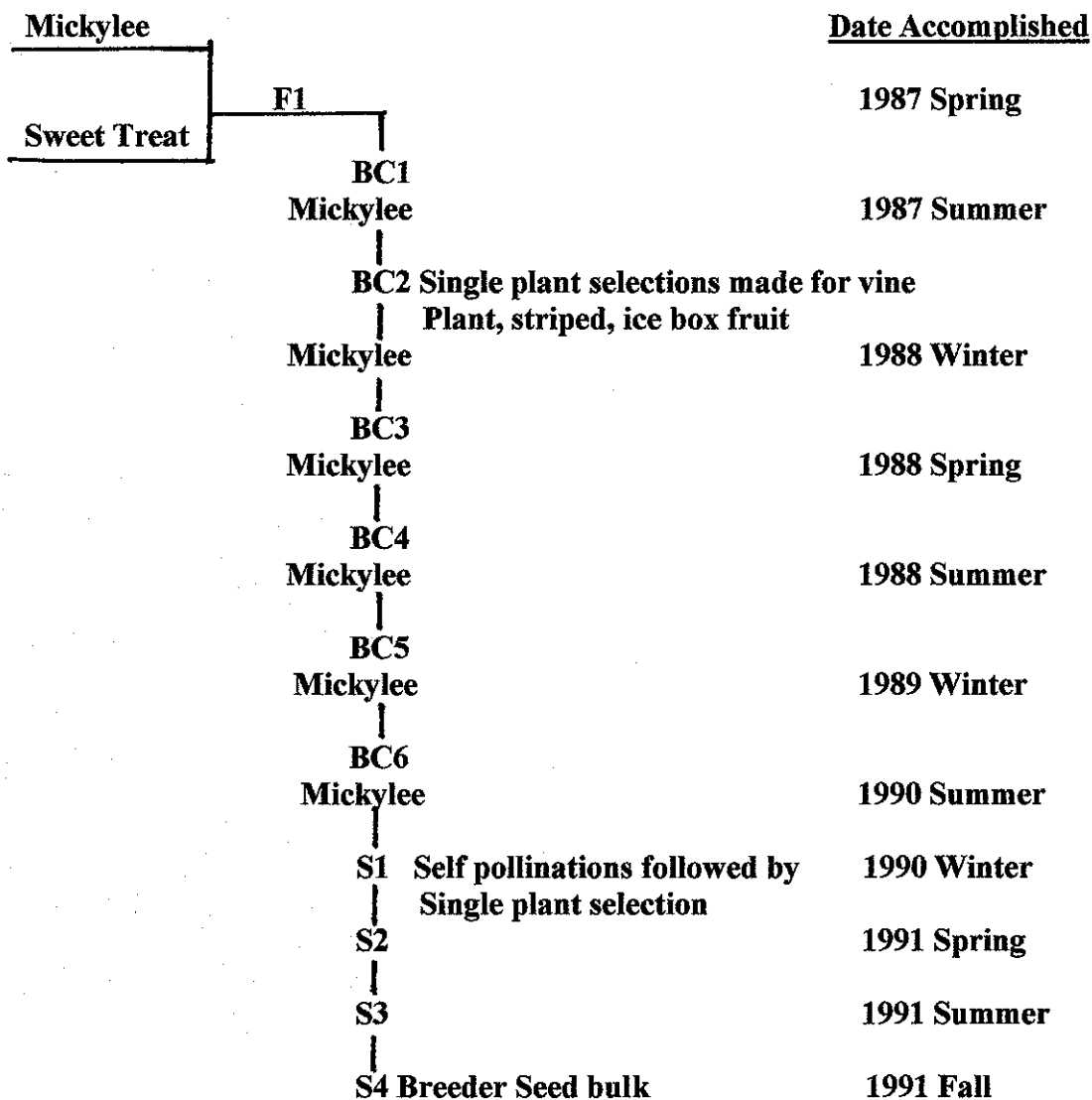


Exhibit B

Novelty Statement for Quetzali (RXW 113) Watermelon

Quetzali (RXW 113) watermelon is unique in that it is an icebox type (8-14 lbs.) but has a striped rind similar to Crimson Sweet. This open-pollinated line most closely resembles the University of Florida release, Mickylee in fruit shape and size but has a striped rind as opposed to Mickylees' solid light-green (145C*) rind. The differences between **Quetzali** and 5 other icebox-size lines are shown in Table 1. These are qualitative, easily distinguishable differences.

Table 1 Differences Between Quetzali and Other Similar Varieties

<u>Variety</u>	<u>Rind Color*</u>	<u>Fusarium Wilt Reaction**</u>
Quetzali	145C/136A	36/36 resistant plants
Mickylee	145C	
Petite Sweet	136A/145C	0/36 resistant plants
Northern Sweet	191A/189A	
Striped Sweet	138B/189A	
Fields' 4 th of July	191A/189A	

*Royal Horticultural Society Color Charts. The first number is the rind background color. The second number is the color of the stripe.

** Fusarium Wilt, Race 0 results, March 1998. Thirty six, (4 replications of 9 plants each) 10-day old seedlings were root dipped in a suspension of *Fusarium oxysporum* f.sp. *niveum* with 10 spores/ml for 20 seconds. Inoculated seedlings were replanted and incubated in a growth chamber at 72 F for 48 hours followed by 80 F for 12 days. At the end of the infection period, seedlings surviving the pathogen were recorded.

OBJECTIVE DESCRIPTION OF VARIETY
WATERMELON (*CITRULLUS LANATUS*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) NOVARTIS SEEDS, INC.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 4188 600 N. Armstrong Pl. Boise, Idaho 83711-4188	PVPO NUMBER 9500015
	VARIETY NAME OR TEMPORARY DESIGNATION Quetzali

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. TYPE:

<input type="text" value="3"/>	1 = OBLONG	2 = ROUND LARGE	3 = ROUND SMALL (icebox)
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2. AREA OF BEST ADAPTATION:

<input type="text" value="1"/>	1 = SOUTH	2 = NORTHEAST/NORTHCENTRAL	3 = SOUTHWEST	4 = MOST AREAS
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3. EMERGENCE TO ANTHESIS:

<input type="text" value="0"/> <input type="text" value="1"/>	NO. OF DAYS EARLIER THAN	<input type="text" value="2"/>	1 = CHARLESTON GREY
<input type="text" value="0"/> <input type="text" value="1"/>	NO. OF DAYS LATER THAN	<input type="text" value="2"/>	2 = OTHER (Specify) Mickylee

4. POLLINATION TO MATURITY:

<input type="text" value="0"/> <input type="text" value="1"/>	NO. OF DAYS EARLIER THAN	<input type="text" value="2"/>	1 = CHARLESTON GREY
<input type="text" value="0"/> <input type="text" value="1"/>	NO. OF DAYS LATER THAN	<input type="text" value="2"/>	2 = OTHER (Specify) Mickylee

5. PLOIDY:

<input type="text" value="1"/>	1 = DIPLOID	2 = TETRAPLOID	3 = TRIPLOID
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6. PLANT

<input type="text" value="1"/>	Cotyledon:	1 = FLAT	2 = FOLDED	<input type="text" value="1"/>	1 = MONOECIOUS	2 = ANDROMONOECIOUS	
Number of flowers per plant at first fruit set:							
<input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="4"/>	STAMINATE	<input type="text" value="1"/> <input type="text" value="4"/>	PISTILLATE	<input type="text" value="-"/> <input type="text" value="-"/>	PERFECT	<input type="text" value="7"/>	NO. OF MAIN STEMS AT CROWN

7. STEM:

<input type="text" value="1"/>	1 = ROUND	2 = ANGULAR	<input type="text" value="0"/> <input type="text" value="5"/>	MM. DIAMETER AT SECOND NODE
<input type="text" value="3"/>	1 = GLABROUS	2 = SCABROUS	3 = PUBESCENT	4 = BRISTLED
<input type="text" value="1"/> <input type="text" value="0"/>	CM. VINE LENGTH ÷ NO. OF INTERNODES (At last harvest)			

8. LEAF:

<input type="text" value="1"/>	1 = OVATE	2 = OBOVATE	3 = ROUND	<input type="text" value="1"/>	1 = LONGER THAN WIDE	2 = LENGTH-WIDTH EQUAL	3 = WIDER THAN LONG		
<input type="text" value="1"/>	Dorsal Surface:	1 = SMOOTH		2 = PUBESCENT					
<input type="text" value="2"/>	Ventral Surface:			<input type="text" value="3"/>	Color:	1 = LIGHT GREEN	2 = GRAY GREEN	3 = MEDIUM GREEN	4 = DARK GREEN

9. FLOWER (At first fruit set):

<input type="text" value="0"/> <input type="text" value="4"/>	Staminate:	CM. ACROSS	<input type="text" value="1"/>	Perfect:	CM. ACROSS	<input type="text" value="1"/>	Color:	1 = LEMON YELLOW	2 = YELLOW	3 = ORANGE
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9500015

FORM GR-470-19 (REVERSE)

10. MATURE FRUIT:

1 = ROUND 2 = OVAL 3 = CYLINDRICAL CM. LONG CM. DIAMETER AT MIDSECTION

KG. AVERAGE WEIGHT INDEX = LENGTH ÷ DIAMETER X 10

1 = SMOOTH 2 = SLIGHTLY GROOVED 3 = DEEPLY GROOVED

Color: 1 = SOLID (One color) 2 = STRIPE 3 = MOTTLE/NET

Primary Color: 1 = YELLOW GREEN (Desert King) 2 = LIGHT GREEN (Charleston Grey) 3 = MEDIUM GREEN (Sugar Baby)

Secondary Color: 4 = DARK GREEN (Florida Giant) 5 = OTHER (Specify) Half light green (145C*), half dark green (136A*) stripe

11. RIND:

1 = TENDER 2 = BRITTLE 3 = TOUGH THICKNESS MM. BLOSSOM END

THICKNESS MM. SIDES

12. FLESH:

1 = CRISP 2 = SOFT 1 = COARSE-FIBROUS 2 = FINE-LITTLE FIBER

Color: 1 = YELLOW 2 = ORANGE 3 = PINK 4 = RED 5 = DARK RED

REFRACTOMETER % SOLUBLE SOLIDS OF JUICE (Center of fruit) % CHECK VARIETY (Specify) Mick ylee

% HOLLOW HEART % PLACENTAL SEPARATION % TRANSVERSE CRACK

13. SEED:

MM. LONG MM. WIDE MM. THICK

INDEX ÷ LENGTH ÷ WIDTH X 10 GM. PER 1000 SEED NO. SEED PER FRUIT

Color: 1 = WHITE 2 = WHITE-TAN TIPPED 3 = WHITE-PINK TIPPED 4 = TAN 5 = GREEN
6 = RED 7 = DARK BROWN 8 = DARK BROWN MOTTLED 9 = BLACK 10 = MOTTLED BLACK

14. DISEASE RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)

ANTHRACNOSE (Race 1) DOWNY MILDEW FUSARIUM WILT, Race 0 GUMMY STEM BLIGHT
 SQUASH MOSAIC WATERMELON MOSAIC POWDERY MILDEW CUCUMBER MOSAIC
 OTHER (Specify) _____

15. OTHER RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)

SUNBURN ROOT KNOT OTHER (Specify) _____

16. NAME A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

Days maturity	<u>95</u>	Fruit shape	<u>Globe</u>
Plant vigor	<u>moderate</u>	Rind color	<u>Light green (145C*)</u> (18 May 98, CSO)
Fruit Size	<u>5 kg</u>	Flesh quality	<u>crisp, 12% sugars, med-bright re</u>

REFERENCES:

1. Frey, K. J. 1966. Plant Breeding - Symposium. 1 ed. Iowa State University Press.
2. Ware, G. W. and McCollum, J. P. 1968. Producing Vegetable Crops. Interstate Printers & Publishers, Inc. Danville, Illinois.
3. Whitaker, T. W. and Davis, G. N. 1962. Cucurbits. Interscience Publishers, Inc. New York.
4. Nickerson's or any recognized color fan should be used to determine the plant colors of the described variety.

5. *Royal Horticultural Society Color Charts

Figure 2



Left, RXW113

Right, Mickylee

Showing the difference between RXW113 and Mickylee from a rind color perspective.



Exhibit D

Additional Description for Watermelon Quetzali (RXW 113)

Quetzali is a high quality, ice-box sized watermelon. Fruits range in size from 8 – 14 lbs. They are globe-shaped and have a light green (145C*), dark green (136A*) striping on the rind. Flesh color is bright red, firm and sweet. Seeds are medium-sized and mottled, dark brown. **Quetzali** plants are resistant to Race 0 of fusarium wilt.

*Royal Horticultural Society Color Charts.

TWO NEW DISEASE-RESISTANT WATERMELON VARIETIES



Dr. Yasou Suzuki with mature Petite Sweet melon in field near Manhattan, Kans. Both fruit and plant are typical.

Petite Sweet and Supersweet (Kansas 68-20 and 68-12, respectively) are being released to commercial seedsmen by the Department of Horticulture and Forestry. Seed is expected to be available to commercial melon producers in 1971.

Petite Sweet was developed from a cross between Crimson Sweet and New Hampshire Midget, backcrossed to Crimson Sweet followed by 7 generations of inbreeding and selection. Breeders' seed were grown in an isolated planting during the summer of 1969 and bulked for release.

Fruits of the variety have a rind color similar to Crimson Sweet (see cover) and average about

8 pounds. Fruit size varies from 5 to 10 pounds in a blocky round shape. Fruit rinds are tough and about one-half inch thick which makes them adapted for shipping. The flesh color is bright pinkish red; the few seed are small and dark brown. The fruit flesh is fine textured and ranges from 9 to 12 percent in sugar content. The flavor is similar to Crimson Sweet's.

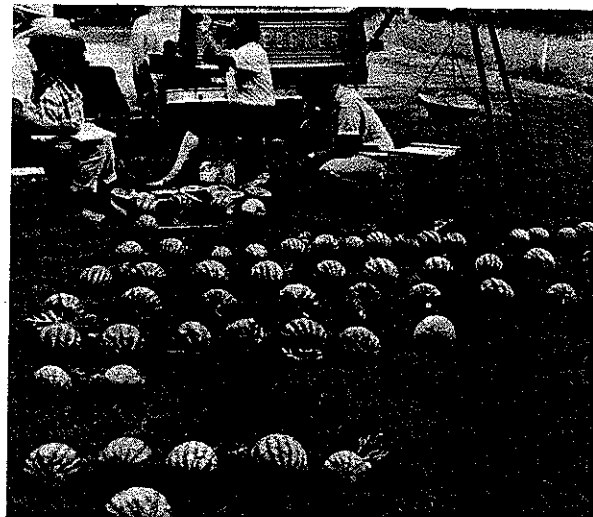
The variety resists fusarium wilt and Races 1 and 3 of anthracnose. Vine vigor is so much less than Crimson Sweet that plants should be grown with spacing similar to that for cantaloupes. Five to 6 feet between rows and 2 feet between hills in rows is adequate.

Fruits mature in about 26 to 28 days from pollination, which is 7 to 10 days less than for Crimson Sweet or Charleston Gray. That is 75 to 78 days from planting to maturity under normal conditions.

Supersweet, a selection from the original 3-way cross that produced Crimson Sweet, has the same parents as Crimson Sweet ([Miles × Peacock] × Charleston Gray). The original selection that produced Supersweet was from a segregating blocky-cylinder population.

External rind color is similar to Crimson Sweet but fruits are more spherical and are slightly grooved. The fruit rind is $\frac{1}{2}$ to $\frac{3}{4}$ inch thick and very tough.

Researchers weighing and sampling Petite Sweet breeding line at Kansas State University.



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

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EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) NOVARTIS SEEDS, INC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER RXW113	3. VARIETY NAME QUETZALI
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 4188 600 N. Armstrong Pl. Boise, ID 83711-4188	5. TELEPHONE (include area code) (208) 327-7246	6. FAX (include area code) (208) 378-6625
7. PVPO NUMBER 9500015		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country _____ <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
10. Is the applicant the original owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, please answer the following: a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country _____ b. If original rights to variety were owned by a company, is the original owner(s) a U.S. based company? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country _____		
11. Additional explanation on ownership (If needed, use reverse for extra space): See attached.		

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-5881 (voice) or (202) 720-7808 (TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Exhibit E

Statement of the Basis of Ownership

Novartis Seeds, Inc. developed 'Quetzali', from an initial cross made by Dr. Paul Yorty of Musser Seed Co. Rogers Brothers Seed Co. (now Novartis Seeds, Inc.) purchased Musser Seed Co. and all its genetics on January 1, 1988. Dr. Paul Yorty began working for Rogers Brothers Seed Co. at that time.

By agreement between employee and Novartis Seeds, Inc. (formerly Rogers Brothers Seed Co.), all rights to any invention, discovery or development made by an employee while employed by Novartis Seeds, Inc. are assigned to Novartis Seeds, Inc. The employee retains no rights to such invention, discovery, or development.

RECEIVED
JAN 11 1988
U.S. DEPT. OF AGRICULTURE
WASHINGTON, D.C.